Concept Pro

VHDIPL

NETWORK VIDEO RECORDER

PLUG & PLAY

HD-iP LITE

USER MANUAL

About this document

Purpose

This document is for the VHDIPL, including the product features, hardware installation, network access, network configuration, daily maintenance, and troubleshooting.

Intended Audience

This document is intended for:

- Technical Support Engineer
- Maintenance Engineer
- End User

Symbol Conventions

This symbol may be found in this document and are defined as follows:

Symbol	description
DANGER	Alerts you to a high risk hazard that could, if not avoided, result in moderate or minor in injury.
WARNING	Alerts you to a medium or low hazard that could, if not avoid, result in moderate or minor in injury.
CAUTION	Alerts you to a potentially hazardous situation that could, if not avoid, result in damage, data loss, performance deterioration, or unanticipated results.
TIP	Provide a tip that may help you solve a problem or save time.
NOTE	Provides additional information to emphasize or supplement important points in the main text.

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1 Preface

1.1 Important note

Thank you for choosing the Concept Pro VHDIPL Network Video Recorder (NVR). Please read the user manual carefully before installing the VHDIPL.

- Never open or disassemble the device unless it is by a qualified or professional person, as this product maybe damaged or cause electric shock.
- Video data loss caused by installation, configuration, improper operations, and hard disk error is not the responsibility of the manufacturer.
- Warranty will be void if the “void if broken” sticker is broken.

1.2 Check the installation environment

Installation environment

Before installing the device, check the installation environment according to Table 1-1

Table -1 Installation environment check items

Check item	standard
Moisture-resistant	The relative environment humidity must be in the range of 0% to 95%. If the humidity is higher than 95%, a dehumidifier must be installed, such as an air conditioner with the dehumidification function or a dedicated dehumidifier. In addition, water seepage, water dropping, and dew forming will cause damage and will not be covered under the warranty.
Dustproof	The VHDIPL should be installed in a dust free environment to minimise mechanical breakdown.
Light	The device must be not be installed in direct sunlight.

Installation notice

During the installation, please note:

- VHDIPL power input voltage is DC12V (±5%) and DC48V (±5%) for POE.
- VHDIPL should be kept horizontal.
- VHDIPL shouldn't be installed in high temperature environments.
- Make sure the VHDIPL is connected with other equipment correctly.

Others

- Please use a soft dry cloth to clean the VHDIPL, do not use chemical solvents.
- Do not place items on top of the VHDIPL.

2 Specification

System	
CPU	SOC (System-on-chip)
Operating system	Embedded Linux 2.6
Features	Embedded CMS system, user friendly interface, easy to use; Quick configuration and simple operation. Plug-and-play, auto detection and schedule setup . Real-time fault alarm mechanism for timely reporting of hard disks, networks, fault information. Embedded Web Server using Flash technology to support common browsers with real-time monitoring and playback.
Video	
Record Info	1080p: average bitrate 6 Mbps. Up to 4 Channel Using 2 x 3TB, 4-channel 1080p can record 30 days.
Ability to decode	H.264 (ISO / IEC 14496-10) high profile 4.2 Can decode max of 1080p video streaming
Real-time video	Single screen: 1 x 1080p/720p/D1 with tour Quad display of 1080p/720p/D1 resolutions Split screen 1/4/ D1 resolutions
Output	DVI-I interface supplied with DVI to VGA converter and DVI to HDMI converter.
Storage	
HDD	Two internal-removable hard disk drives, maximum 2 x 3TB hard disk drive supported
Audio	

In / Out	3.5mm linear audio output
Audio formats	G711_A，G711_U
Network	
Transmission control	Embedded network bandwidth adaptive flow control technology.
Interface	1 RJ45 10M/100M network port and 4 RJ45 10M/100M ports with POE
Web	Webserver supported with Flash technology for popular browsers in real-time monitoring, video playback, and system configuration.
Network protocol	RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS Client, RTMP for Flash Video
Characteristic	
Temperature	Ambient temperature: 0°C - 45°C, using industrial grade microprocessor, intelligent heating and cooling
Humidity	00% to 95%
Power consumption	Low-power design, motherboard max power consumption 8W; with 2 3TB hard disk increases 40W power consumption.
Power input	AC100-240V/1.5A /50- 60HZ Input ,Output DC48V/1.04A ; AC100-240V/1.5A /50- 60HZ Input ,Output DC12V/5A
Size	Chassis：220mm x 150mm x 100mm（L x W x H）
Weight	4Kg / 8.8lb No HDD installed.
USB	2x USB2.0 interface, respectively as a backup and USB mouse.

3 VHDIPL Networking solutions

The VHDIPL has 5 Ethernet ports, one is RJ45 without POE, others are POE supported ports. The 4 POE ports are for connecting to the cameras. Cameras should not exceed a distance of 100 metres from the POE Ports.

POE port

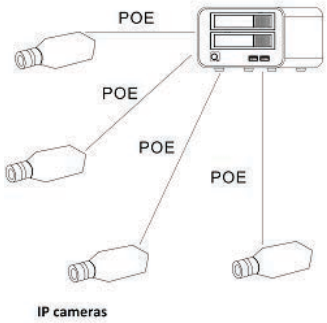
The POE ports on the VHDIPL can connect to the cameras directly. The VHDIPL will add the cameras automatically if connected to the POE ports and the default recording is 24 hours * 7 days a week. Note the POE only supports IEEE 802.3af standard .

10M/100M RJ45 Internet port

When connecting to the Internet or local network, the VHDIPL needs a CAT5 cable running to a switch or router at a distance of less than 100 metres.

The camera dedicated network topology is shown in Figure 3-1

Figure 3-1 camera dedicated network



4 Installation

4.1 Days recorded

Table 4-1 video storage time

HDD capacity	Video stream	Cameras	Days recorded
2 x 3TB	720p at 6 Mbps	4	30
2 x 3TB	1080p at 6 Mbps	4	30

Suggestion: Use two hard disk dives to reduce the risk of data loss.

4.2 **Front panel description**

Figure 4-1 shows the front panel of the VHDIPL. Table 4-1 shows the description of the front panel.

Figure 4-1 Front panel

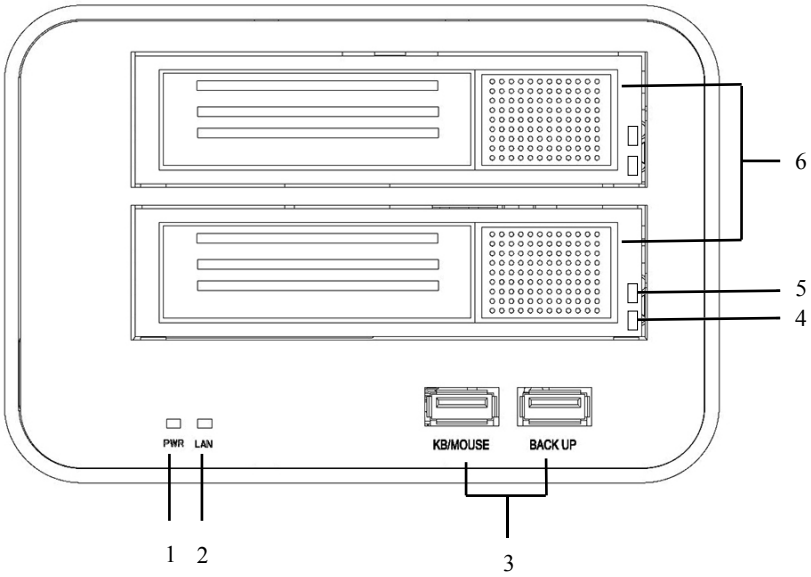


Table 4-1 Front panel description

No.	Name	Description
1	Power LED	VHDIPL is turned on and the power LED is a solid red
2	Network LAN LED	LAN normal solid green status, data transmitting flashing status
3	USB interface	For connecting external mouse, keyboard, USB memory stick
4	HDD data LED	HDD read and write, blue LED flashing
5	HDD status	Solid blue lit LED
6	HDD Rack	Where the HDD is stored

4.3 **Rear panel description**

Figure 4-2 shows the rear panel of the VHDIPL. Table 4-2 shows the interface of rear panel.

Figure 4-2 Rear panel

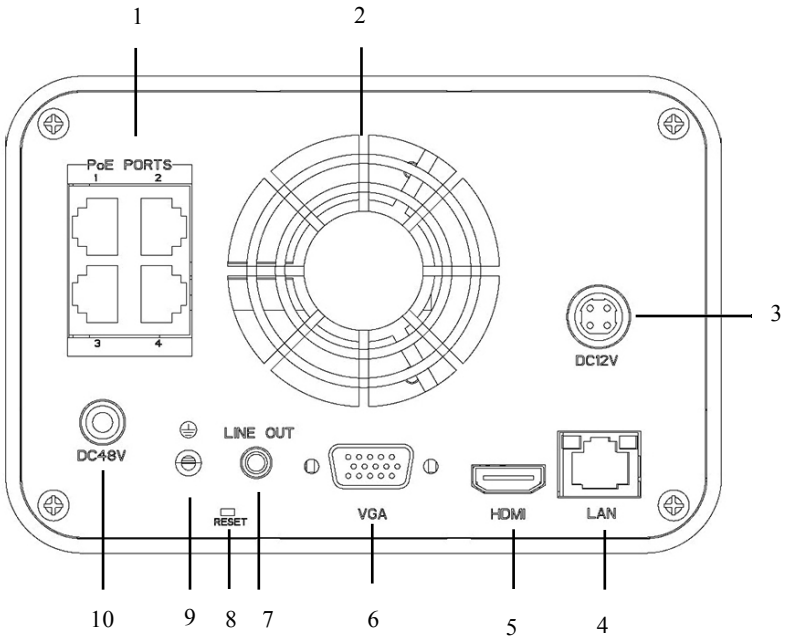


Table 4-2 Real panel description

No.	Name	Description
1	POE port	POE power supply port
2	Fan	When the power is on, the fan is operational
3	Power Input	DC12V,5A power input (Supplied)
4	Network Interface	RJ45 100Mbps network interface. (LAN Connection)
5	HDMI Output	HDMI video output terminal
6	VGA Output	VGA video output terminal
7	Audio output	Audio output
8	Reset	Restores the factory default settings, hold for 5 seconds

No.	Name	Description
9	Ground connect	Ground connect
10	DC48V Power interface	DC48V.1.04A power input (Supplied)

4.4 First boot

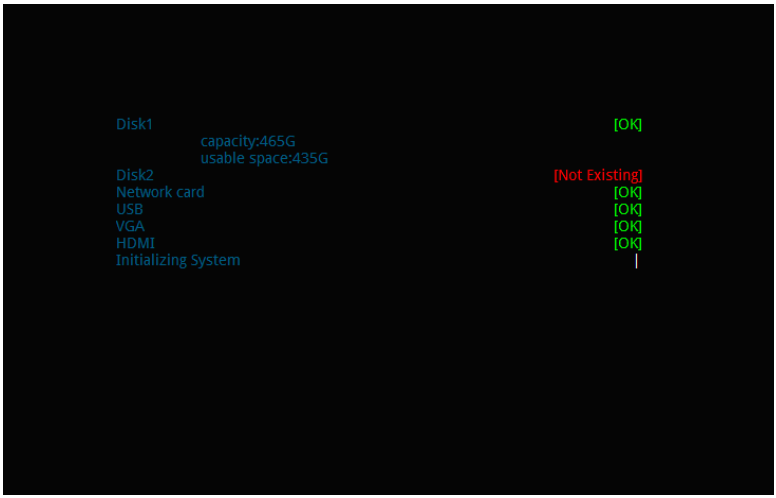
CAUTION

- Make sure that the VHDIPL has the correct amount of power.

If you want to use POE power supply, please plug in the DC48V power adapter, supplied with the VHDIPL.

Once the VHDIPL starts and after the self test, (which takes about 2 minutes) the results are displayed on the screen shown in figure 4-3.

Figure 4-3 Device power on



If an error occurs while the VHDIPL is in self-test, this mode will stay in the lower right of the screen, you can choose to continue or shutdown. If you choose to continue, the device will continue to start, until the device login screen is shown.

NOTE

If the HDD fails testing the reasons may include the following：

- Unformatted new hard disk, go to quick configure to format the hard disk drive.
- Formatted hard disk drive, the VHDIPL supported file systems do not match.
- Hard disk drive is damaged.

4.5 **Shutdown**

CAUTION

- Shutdown process, the system prompts are off, do not cut off the power

- Do not remove the power cables while the VHDIPL is still on.
- If the device is logged into the main interface, you can click the top right button and this will bring up the shutdown interface, shown in figure 4-4.

Figure 4-4 Shutdown interface

4.6 Displayer resolution adjustment

The VHDIPL will support resolutions with VGA 1024*768, VGA 1280*1024, VGA 1600*1200, HDMI 720P, HDMI 1080P, you can select the correct resolution according your monitor.

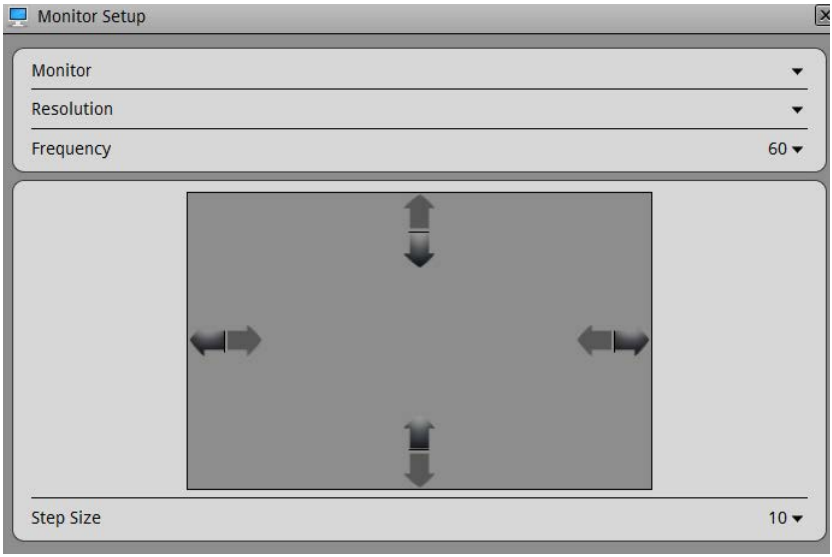
NOTE

When using VGA we advise to set it to 1024*768 or VGA 1280*1024. When using HDMI input we advise to use HDMI 1080P.

Adjustment Steps:

Step 1 Click change on login interface and find the adjustment interface shown in figure 4-5.

Figure 4-5 Adjustment Monitor Setup



Step 2 Choose the type of resolution in the resolution drop-down box.

The VHDIPL will automatically switch to the selected resolution and show the following dialog options Yes or Cancel.

- If no selection is made within 10 seconds, the display will return to the previous resolution.
- If you select Yes then it will switch to the selected resolution.
- If you select **cancel** the display will not save the configuration and go back to the previous resolution.

Step 3 Adjust display.

NOTE

If the monitor does not show the full screen (does not appear at the corners) screen adjustment is needed.

1. Click Adjustment button at lower right corner.
2. In the step of the drop-down box to choose the adjustment step.

   Step size: The moving distance when adjusting screen each time, the greater number the more moving distance, you can select larger step sizes to adjust quicker, and then select the smaller step to adjust more accurately.
3. Use UP, DOWN, LEFT, RIGHT button to adjust the screen.

Step 4 Click the configuration interface to close.

Exit display interface

Back to Login interface

4.7 **Adding Network Cameras**

The VHDIPL allows you to connect a maximum of 4 network cameras. The total recording bit rate is 24 Mbps and live video total bit rate is also 24 Mbps.

CAUTION

- The VHDIPL will support a maximum of 4 cameras at 1080p resolution with average bit rate is 6 Mbps network camera. If the total baud rate is more than 24 Mbps it may cause the VHDIPL to lose video.
- For detailed specifications please refer to chapter 2 Specifications.

Add Network camera

Method 1: Add the camera manually.

NOTE

We can discover network cameras by an IP broadcast, IP segment search, and static IP search. Network cameras have to be on the same IP range ad have to be on the same subnet mask

Method 2: Add camera by POE ports.

NOTE

Cameras will be detected and added automatically

4.8 **Login**

Login to the VHDIPL using the following steps：

Step 1 In the login screen shown in figure 4-6, enter a user name (default is admin), password (default is admin).

Figure 4-6 Login screen

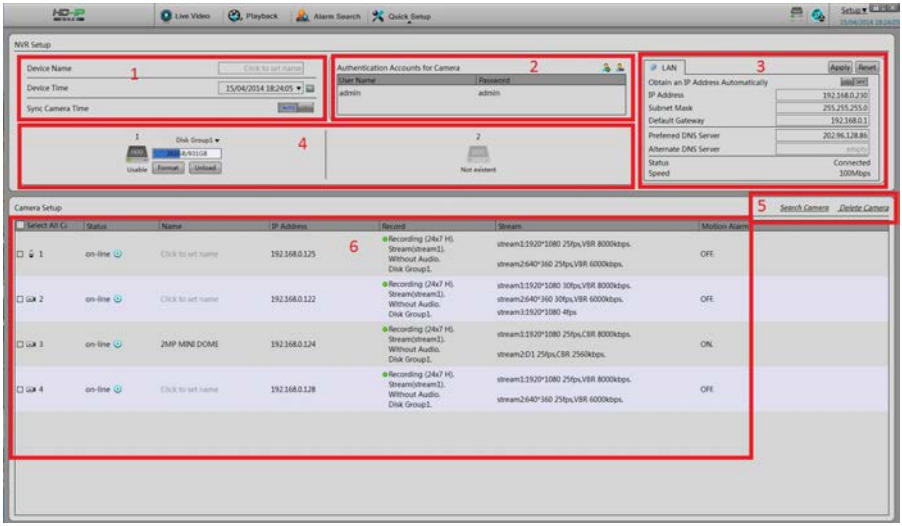
Step 2 Click Login and enter the main interface.

5 Quick configuration

To quickly configure, use the quick configuration interface of the VHDIPL. It provides:

The network configuration, disk management, date and time configuration, search network cameras, video configuration, camera network configuration stream configuration and motion detection configuration. Enter the quick configuration interface, as shown in figure 4-7

Figure 4-7 Quick Configuration Interface



The quick configuration interface description.

Area 1: VHDIPL basic information and time synchronization functions.

- Set the name, date and time.
- Synchronize the time of the network cameras. You can select manual mode or automatic mode.

  When the manual mode is selected, click button for time synchronization. When synchronize mode is selected, time will synchronize automatically by the

VHDIPL, this means all cameras will have internal times to match the VHDIPL time.

Area 2：Managing camera certification accounts.

The certification accounts used to log on to the network cameras. Only certified network cameras can be added to VHDIPL system.

- System cameras will have a default user account: admin and default password: admin. Click to add a network camera certification account.
- Click to select account to be deleted from the list.

Area 3：VHDIPL network configuration.

- VHDIPL factory default IP address: 192.168.0.120
- The basic network configuration can configure the IP address, subnet mask, default gateway, DNS address and other parameters. Real-time display of the network connection status and speed.

Area 4：Hard disk management.

CAUTION

- Formating the hard disk will cause video loss, please use this feature with caution.
- Always use the software function when removing hard drives and ensure that the power is off.

Hard disk management：

- To format the hard disk, click the format button, a pop-up prompts, click format. A 3TB HDD takes about 10 minutes to format.
- Load or unload HDD. Do not pull out the hard disk unless you have click on unload first.
- To modify hard disk group, add disk 1 to disk group 1 and disk 2 to disk group 2, or add disk 1 and disk 2 to disk group 1.
- To view the status of the disk it will say one of the following; normal, abnormal, unformatted drive or does not exist.
- View the disk space and the total space.

Area 5：Select Network Camera

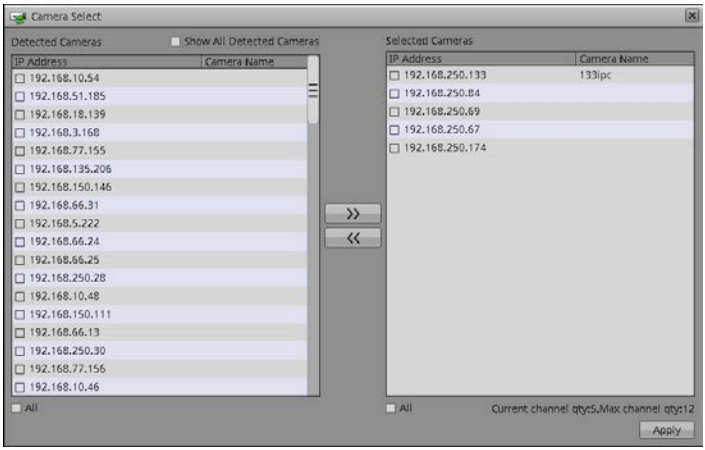
VHDIPL will automatically search for the network cameras.

- When the number of network cameras is no greater than 4 units, the VHDIPL will automatically add them to the management list.

The VHDIPL is capable of detecting and recording up to 16 cameras however for maximum performance we only recommend and support the VHDIPL a 4 camera device.

If more than 4 cameras are detected they will be displayed as per figure 4.8. From here you must select the 4 cameras that you require.

Figure 4-8 Device Discovery Tips

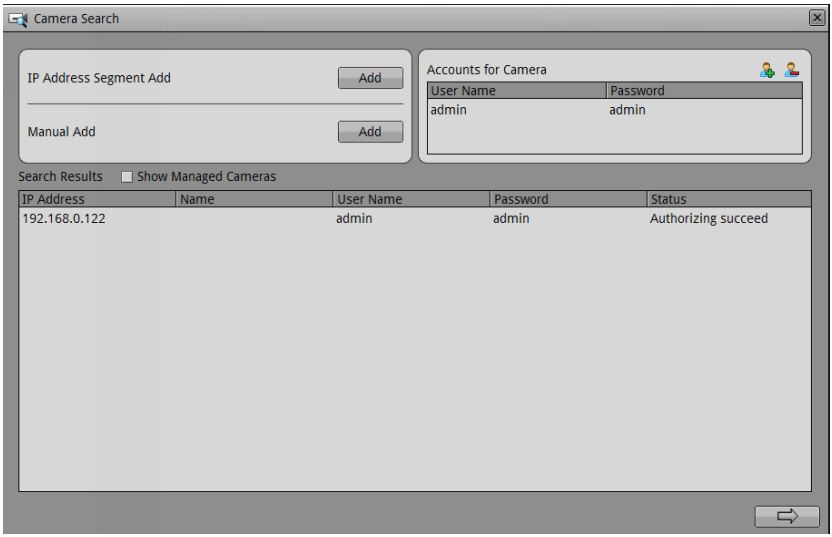


Click the Apply button to complete the network camera selection.

Area 5：Search cameras, delete cameras.

To manually search for a camera, click on search camera and the search camera interface will pop up shown in Figure 4-9

Figure 4-9 Camera Search Interface



Click the button .

To remove the camera in the camera list, click the check box 1, select the camera and then click delete to remove, shown in figure 4.7.

Area 6：Configuring the network cameras.

To view the status of the network camera, set the name of the network cameras, IP address, video strategy, stream parameters, and motion detection parameters.

- View the status of network cameras: online, not online, account errors.

1. To preview real time video click .
2. Modify the name of the network camera.
   Enter the desired name of the device.

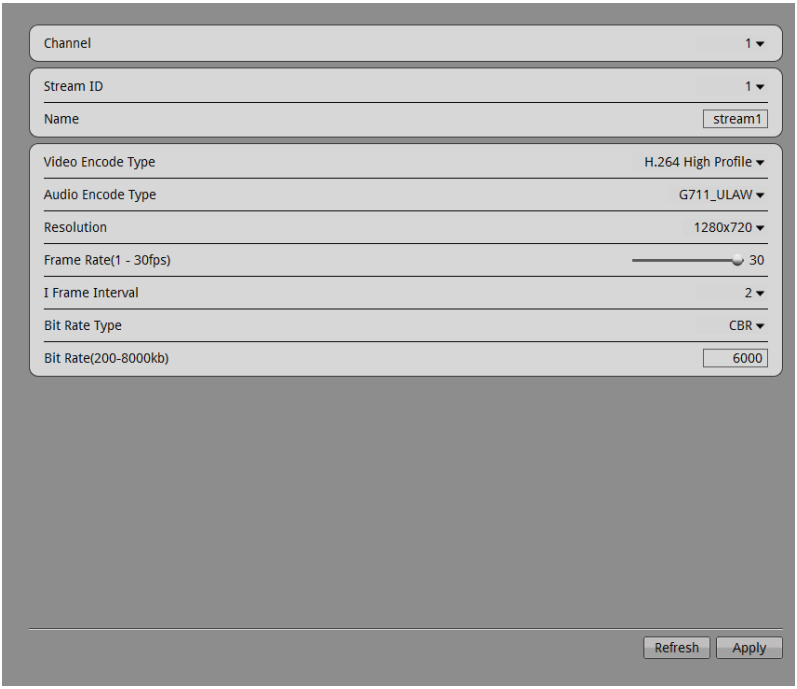
- Modify the IP address of the network camera.

1. Click the camera to modify the IP address, network cameras IP Settings, a dialog box pops up.
2. Set the network camera IP specific operation methods and procedures, see chapter 9.1.4.

- Set the device stream.

4. Click stream information to pop-up the stream configuration dialog box shown in figure 4-10.

Figure 4-10 Stream Quick Configurations



5. Click the Apply button to set the current parameters to the devices.

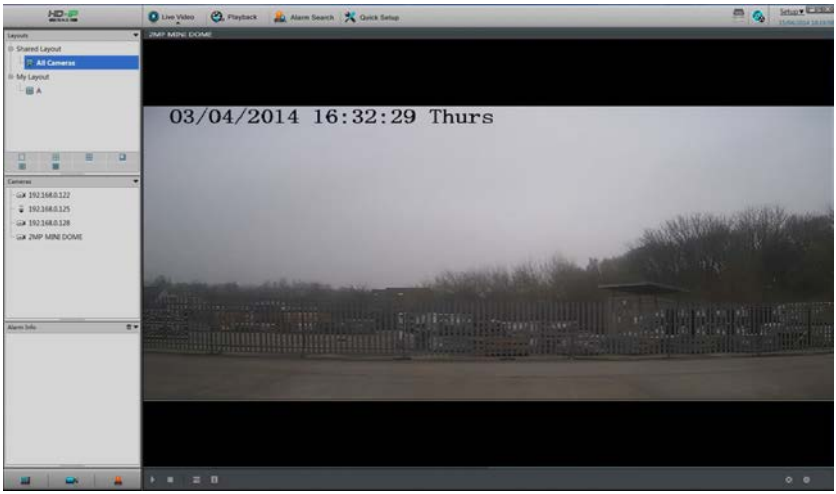
- Set to detect motion detection alarm, shown in figure 4.7.

1. Click motion detection, and the motion detection alarm dialog pops up.
2. If you want to turn on the motion detection alarm, you must set the arming time and detection area.

6 Live video

To input the username (default is admin) and password (default is admin), click login. Enter the live video interface, shown in figure 4-11.

Figure 4-11 Live Video Interface



In the live video interface, you can select the cameras from the left list to view live video. You are also able to do the below operations:

3. Live video
4. Alarm log tracking
5. Monitor the recording status
6. PTZ Control
7. Audio
8. Full screen automatically
9. Video mark
10. Sensor configuration

Decoding ability

This system decoding ability is 4 channels 1080p.

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Intelligent adaptive mechanism of stream frame rates

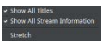
This system provides the intelligent adaptive mechanism of stream frame rates.

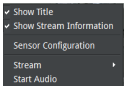
When you are selecting the camera to watch in live video, the system will select the suitable stream according to system's own decoding ability and live video windows. It will always ensure the system works with the best performance.

To change the streams manually, right click the screen to access the menu, then you will be able to see all the available streams in the current camera. After the streams are switched at the bottom line of the live video window the stream information will appear.

Live video interface introduction as figure 4-11 (above).

Table 4-3 Live video interface introduction

Items	Name	Content
1	Top menu	**Click Live Video, Playback, Alarm Search and Quick Setup to enter the interface.** Click icon to check the HDD information. Click icon to enter the recording backup interface. Click icon to lock the interface.
2	Channel Layout	Select which display layout you would like from the available selection. After selecting the layout mode, move the individual camera from the left list to the position on the layout screen you want it to appear in. Click the save button to save the layout. There are two options "Shared layout" and "My layout", this also supports "Cycle" mode, we can configure this in Setup > VHDIPL Setup > Live Video Setup > Layouts.
3	Camera List	The camera list shows every camera that has been assigned to the VHDIPL. means normal, means offline, means unverified (username or password is not correct).
4	Alarm information	This area displays the alarm information including motion detection and I/O alarm. This will only display the last 20 alarms. Click to clear the information.
5	Bottom menu	By clicking , and icons, the **layout list, alarm list and alarm information** will be hidden or viewed. : Play live video button. : Close live video button. : Click to select the PTZ control menu. : Click to display the following.  : Selects Full Screen Video Playback

Items	Name	Content
		: Automatic Full Screen control
6	Live video	Right mouse click on the live display will allow the changing of some display information. Start the audio, bookmark the current video footage for ease of finding later, change the video stream and access the sensor configuration set up menu of the camera being viewed.  : Mark/Tag, press this button during live video and the recording will be highlighted in “yellow” and make it easier to find the footage at a later date.

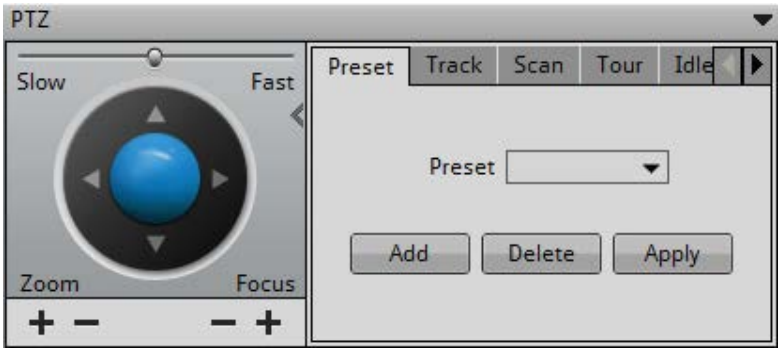
Return to full screen automatically

Click to enable the return to full screen function, and set the time delay. When this function is enabled, it will go to the full screen mode immediately. When it is in full screen mode, move the mouse to the bottom line it will activate the tool bar, click the icon to can exit the full screen mode. Click to manually return to the full screen.

PTZ control

Click button to call the PTZ control menu, as shown in figure 4-12. In this interface adjust pan, zoom, preset, trajectory, scanning, infrared light, north, timer settings etc.

Figure 4-12 PTZ Control Menu



NOTE

PTZ Control menu only can be operated with IPS Dome and Ext PTZ platform.

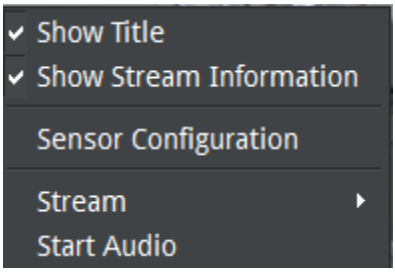
Click button to close the PTZ configuration menu.

Click button to exit the PTZ control menu.

Live video fast operation

Right click mouse button to actvate figure 4-13 interface, call the menu to: Show Title, Show Stream Information, Start Audio, Stream, Sensor Configuration etc.

Figure 4-13 Live video monitor menu

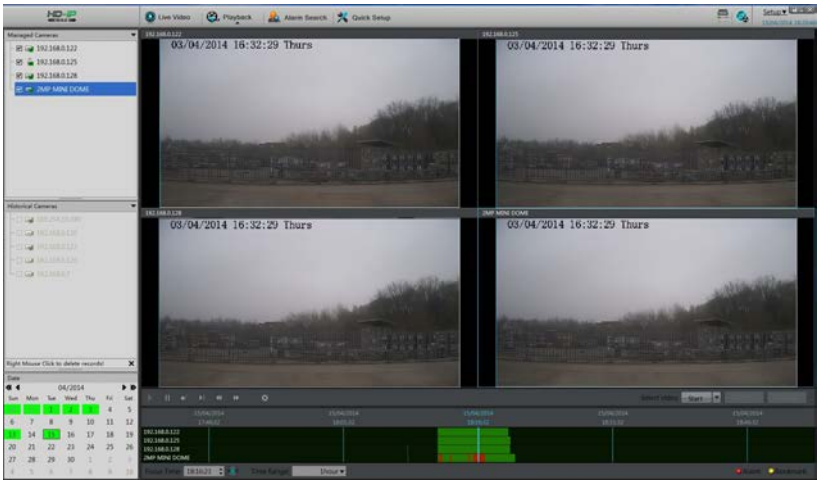


7 Playback

7.1 Recording playback

Recording playback will playback the video which is recorded to the local HDD, shown in figure 4-14.

Figure 4-14 Local playback



Playback operations steps.

Step 1 Choose the camera to playback.

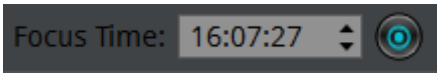
Click one from the list on the left hand side, icon means this camera has been selected, means camera has not been selected.

Step 2 Date selection.

You can select the date period on the calendar. Click , to switch month, click 、 to switch year. Means selected date. When it is marked green it means this day has recorded footage, otherwise there is no recording on that day.

Step 3 Recording shown.

After selecting the device and date, at the bottom area of the live video, it will display the recording status. The scale on the time axis shows the recording time period, blue means the current playback video time. The playback video will be displayed above the time axis, blue means retain video, red means alarm video, yellow means label video, green means normal video.



Input the time, then click , the playback video will jump to the pointed time.

: After the time zone, you can select the time interval: 15 minutes, 30 minutes, 1 hour, 4 hours, 8 hours, 12 hours, 1 day.

When 1 hour is selected, then the time period between the two blue lines is 1 hour.

Step 4 Playing recorded footage

After selecting the camera and date, to start playing the recorded footage, click

Figure 4-15 Control Tool Bar

From left to right are: play, pause, rewind 10 seconds, single frame playing, rewind, fast forward and full screen button.

NOTE

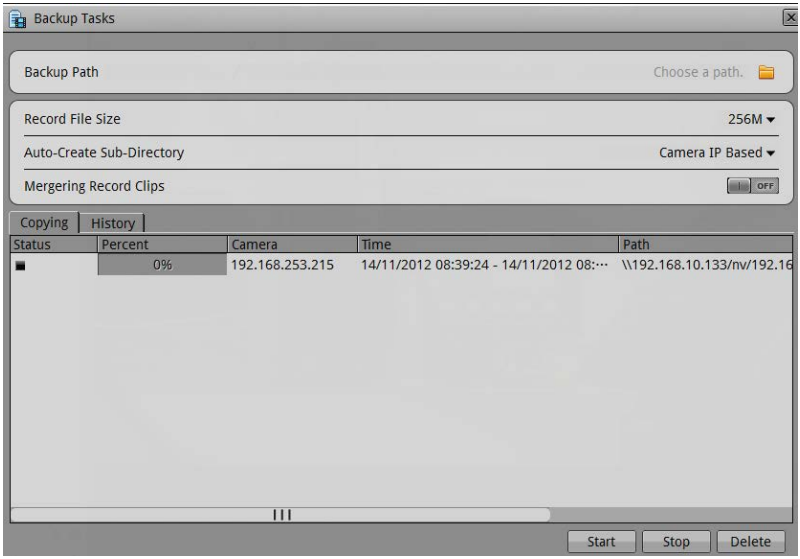
During the playback, you can try to move the mouse to control the playback processes, click to switch to the full screen mode.

7.2 Recording backup

Step 1 Configure the backup path.

Click button to call the backup interface, click button to call the backup path configuration interface show in figure 4-16.

Figure 4-16 Backup Path Browser

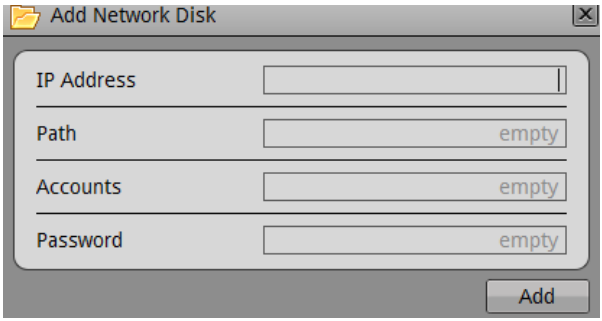


In the backup path, it will display the current backup path, if it is blank, then select one option. In the below list it shows the available storage paths. The VHDIPL will support two kinds of the storage: Network Attached Storage (NAS) and USB storage device (U disk or Removable HDD).

- Network Attached Storage

4. Double click the Add Network Disc, or right click the menu to call the Add Network Disc interface, shown in figure 4-17.

Figure 4-17 Add Network Disc



5. Input the IP address, path, account and password, click Add.
6. Check the network disc status. The status list: OK, connect fail, unavailable. When status is OK it means the network disc can be used for backup.

7. Double click the network disc path list, select the backup path, click ok button save and exit.

- USB Storage device

1. Insert U disk or removable HDD to the USB interface.
2. The VHDIPL will detect the USB storage device automatically, after detection, it will show USB storage device.
3. Right click menu to select unmount or formatting options on the U disk.
4. Double click the USB storage device path list, select the backup path, click OK and exit.

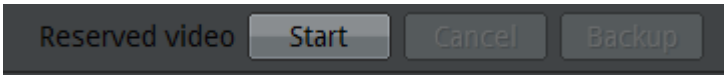
Step 2 Configure the backup file options.

8. You can define the maximum size of an individual file.
9. Create the subdirectories, it can be created by the directories based on the network cameras IP address or ID.
10. To combine the recorded video clips ensure the "Merging Recorded Clips" function is ON.

Step 3 Select backup recording

Method one: Select the recording and backup during the playback process. Recording backup control bar as shown in figure 4-18:

Figure 4-18 Recording Backup Control Bar



1. Click the Start button to start selecting the recording segment.
2. Select the recorded footage, press the left mouse button to move to the left or right side to highlight the footage you want to backup.
3. Click Stop button to stop the selection, (You can also click the cancel button to cancel the current selected video segment).

Click backup to start the backup.

Method two: In alarm searching, when you are playing the playback alarm triggered footage, you can click backup to make the backup files.

Step 4 View backup file progress

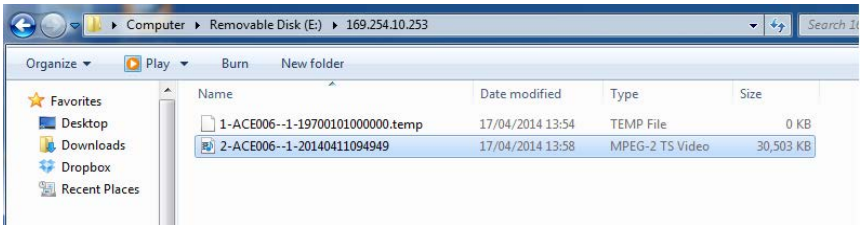
Check the backup status in backup interface, indicates backup is in processing, indicates wait for backup, indicates backup stopped, indicates backup failed, means backup finished.

Step 5 On a computer

Enter the backup directory folder, enables the user to check all the backup files.

Enter the backup path folder to check the backup files, shown in figure 4-19.

Figure 4-19 File Search



8 Alarm searching

Alarm searching Interface

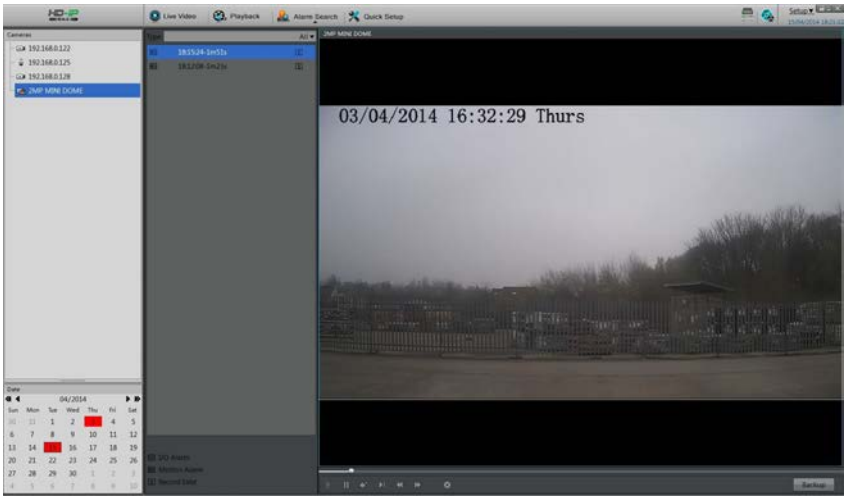
Operation steps

Step 1 Click Alarm Search to enter the alarm management interface shown in 4-20.

Step 2 Select the camera which you want to search the alarm information from the list on the left. indicates this camera has alarm information.

Step 3 Select the alarm type at the Type drop-down menu.

Figure 4-20 Alarm Searching Interface.



Step 4 Date selections.

Choose the date period which you want to search in the calendar area.

Click , to switch the month, click , to switch year, 15 Means the date which has been selected. If red then, that day has alarm recordings.

Step 5 Recording shown.

When you have selected the time and date you can pay the alarm recording..

Step 6 Alarm triggers playback.

Select the alarm trigger recording files, click button to start playing.

Step 7 Alarm recording backup

Select the recorded files and click backup button to create backup files.

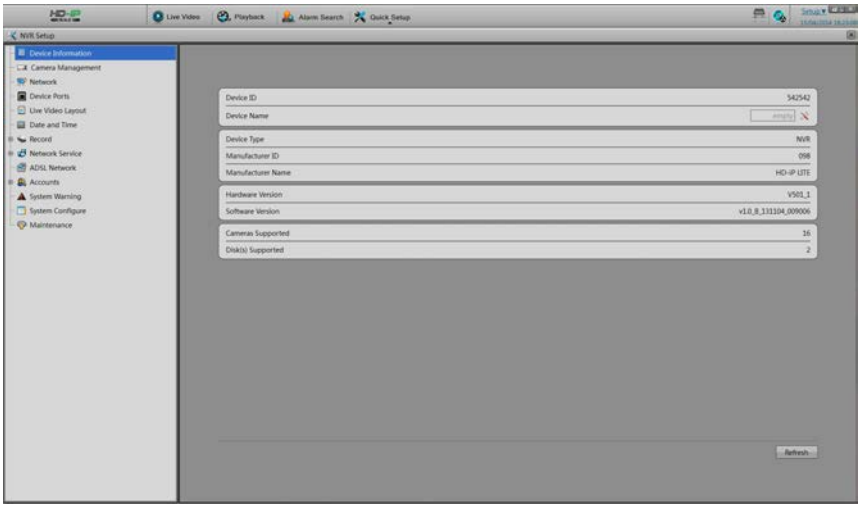
9 Setup

Setup includes the VHDIPL setup and the camera setup.

9.1 VHDIPL setup

Click **NVR setup** in upper right to show the VHDIPL configure interface shown in Figure 4-21.

Figure 4-21 NVR setup



9.1.1 Device information

When in the VHDIPL setup interface, we can see the system information shown in Figure 4-21.

Device information includes:

- Device ID
- Device Name
- Manufacturer ID
- Manufacturer Name

- Hardware Version
- Software Version
- Channel Quantity
- Disk Quantity

NOTE

- Only the device name can be edited, other parameters can't be edited.

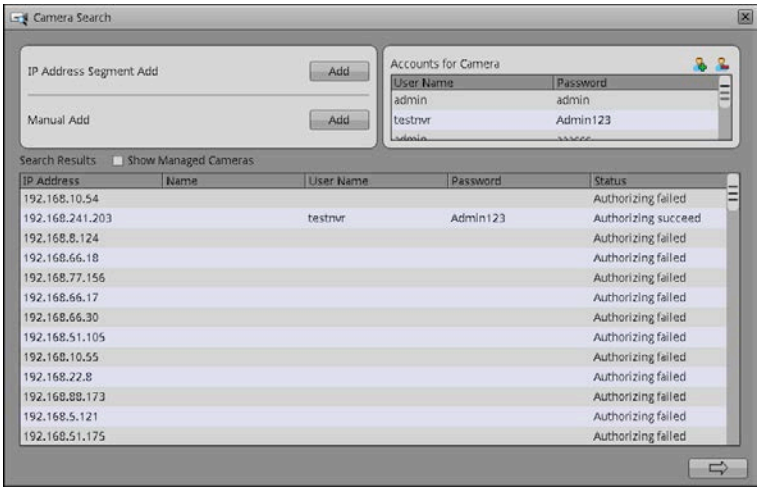
9.1.2 Device Management

You can search, add, and delete cameras via Device Management.

Select NVR setup > Device Management

Enter the camera management interface, shown in Figure 4-22; it will list all the cameras which are connected with the VHDIPL, and some basic information.

Figure 4-22 Device Management Interface



Search and add cameras.

To search and add cameras, do the following:

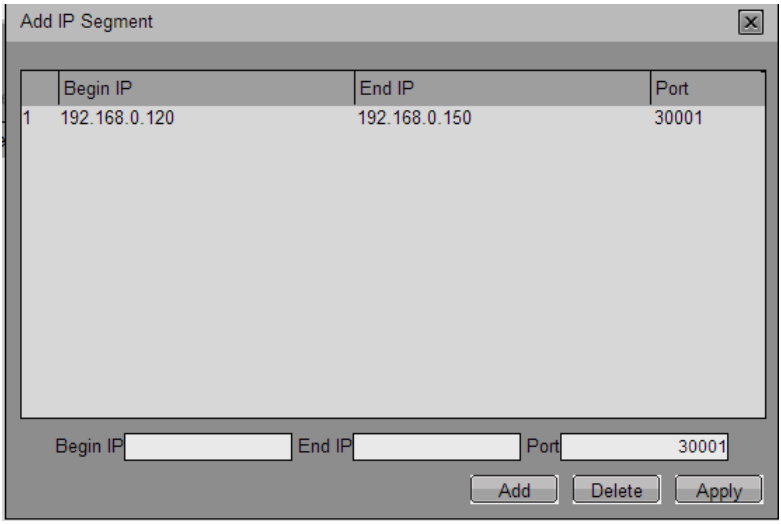
Step 1 Click the "add" button to call the camera searching interface.

Step 2 Add the cameras according to the IP address or add manually.

- Add IP address

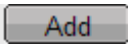
1. Click Add in IP address, to call the IP adding interface shown as Figure 4-23.

Figure 4-23 Add IP section.



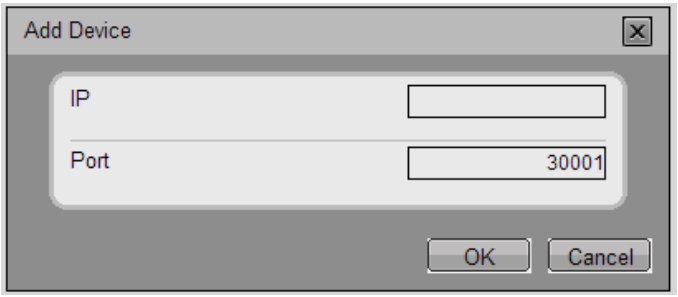
2. Input the Begin IP address and End IP address and Port number.
3. Click Apply to finish the operation.
4. The system will search the IP cameras in the IP segment and it will show the results as shown in Figure 4-23.

11. Add manually

1. Click 

button, to add cameras, shown in Figure 4-24.

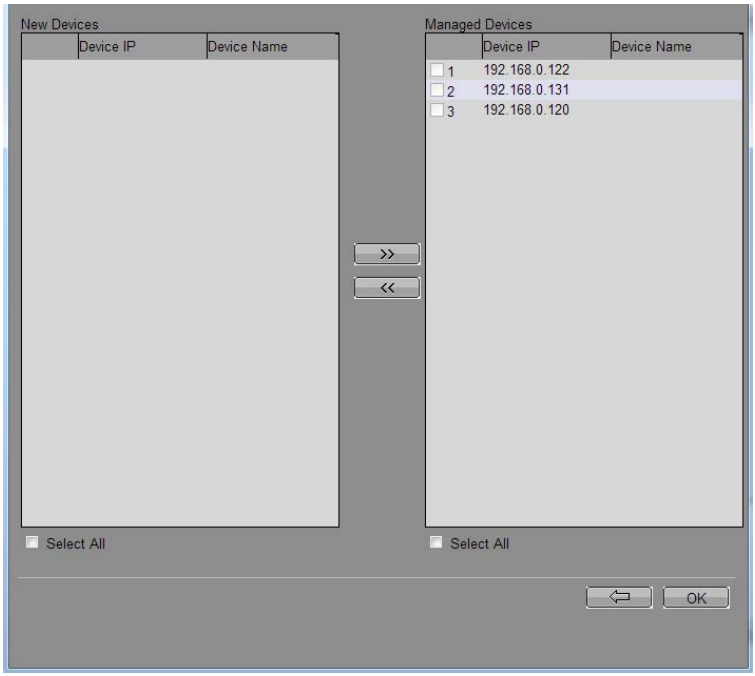
Figure 4-24 Add cameras manually



2. Input the IP address and Port number.
3. Click OK button to finish the operation.
4. If such camera is available, then the adding result will be displayed below.

Step 3 Click button to call the interface shown in Figure 4-25.

Figure 4-25 Add Camera Management



Step 4 Select the cameras which you want to add from the left hand side, then click » to add them to the VHDIPL.

Press « to cancel the adding operation.

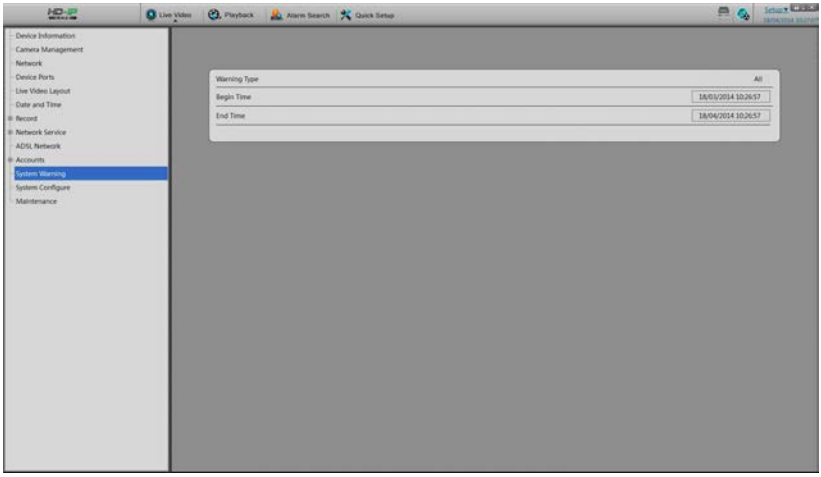
Click OK button to finish the operation.

9.1.3 System alarming

Select Setup > System warning > system warning

Enter the system warning shown in Figure 4-26.

Figure 4-26 System Warning Information.



Warning information searching steps.

Step 1 Select the warning type (Disk Alarm, Record Alarm, All).

Step 2 Input search begin and end time.

Step 3 Click , then the results will be displayed.

9.1.4 Network

You can check the Camera's DHCP IP address, configure IP address, subnet mask, gateway address, First DNS and backup DNS.

CAUTION

Make sure the camera's IP addresses do not conflict with any computers on the LAN.

Operates steps

Step 1 Choose configure > system configure > network

Enter the network configuration interface shown in Figure 4-27.

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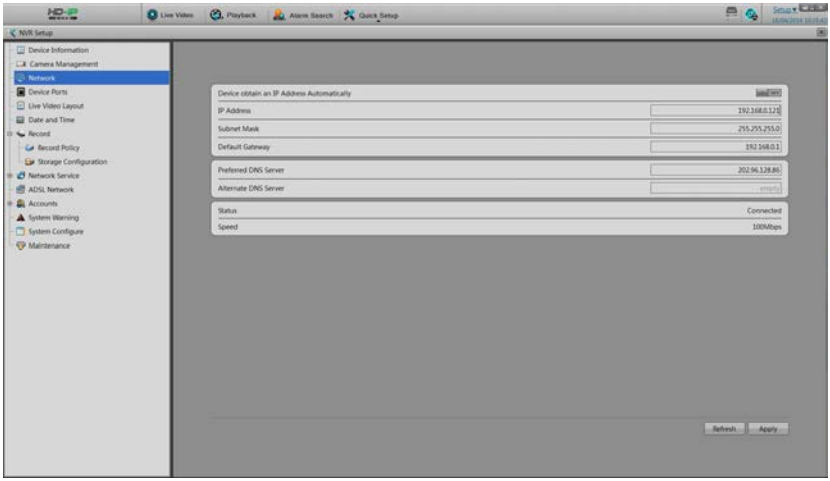
Figure 4-27 Network Interface



Step 2 Configure the network parameters, reference the Table 4-4.

Table 4-4 Network parameters

Items	Introduction	How to configure
Get IP address automatically	It will get the IP address from DHCP server automatically.	Switch DHCP to on by this button ON.
IP Address	It can configure the camera's IP address.	Default IP is 192.168.0.120
Subnet mask	Configure the subnet mask	Default address is 255.255.255.0
Gateway	Configure the Gateway address	Default is 192.168.0.1
DNS	Configure the DNS server address	Default is 192.168.0.1

Step 3

12. Click Apply, then a message saying "Applying succeeded" pops up then click ok.
13. If another window pop ups, then please confirm the parameters are all correct and configure again.

9.1.5 **Live video layout**

You can configure the live video layout in order to call the live video quickly.

Live video layout can do the below operations:

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- Create a new layout
- View a current layout
- Edit a current layout

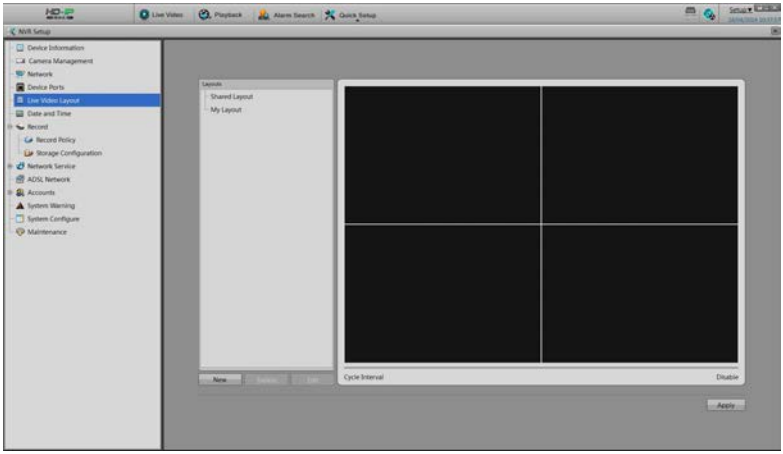
Create New layout

The steps to create new layout are shown below:

Step 1 NVR Setup > Live Video Layout

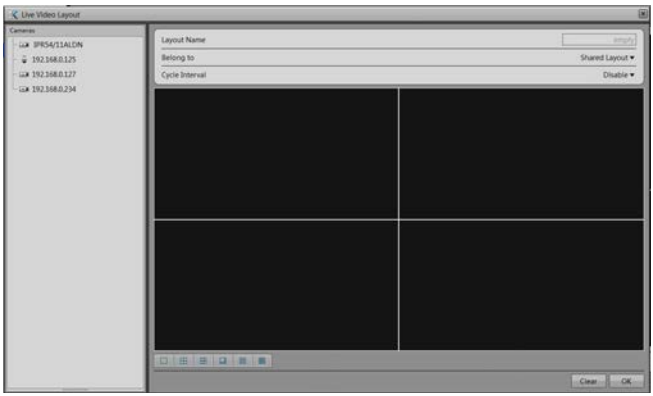
Enter the live video layout shown in Figure 4-28.

Figure 4-28 Live Video Layout



Step 2 Click New to call the new layout shown in Figure 4-29.

Figure 4-29 New layout



Step 3 Input the New layout name

Step 4 Configure the New layout position, you can select the Shared layout or my layout.

NOTE

Shared layout means the layout for all the users.

My layout means the layout for current login user only.

Shared layout can only be created by authorized users.

Step 5 Configure to enable the wheel guard or not. Wheel guard time interval could be set as 5s, 10s, 30s, and 60s.

Step 6 Choose the screen split settings.

From left to right are single frame, 4 frames, 6 frames and 1+5 frames. You can choose one of them.

Step 7 Left click the mouse to select the camera from the list and move to the live video layout.

Step 8 Click Apply to finish and save the configuration. If a window pops up you may not have not entered a new layout name as this cannot be left blank. Please input the layout name.

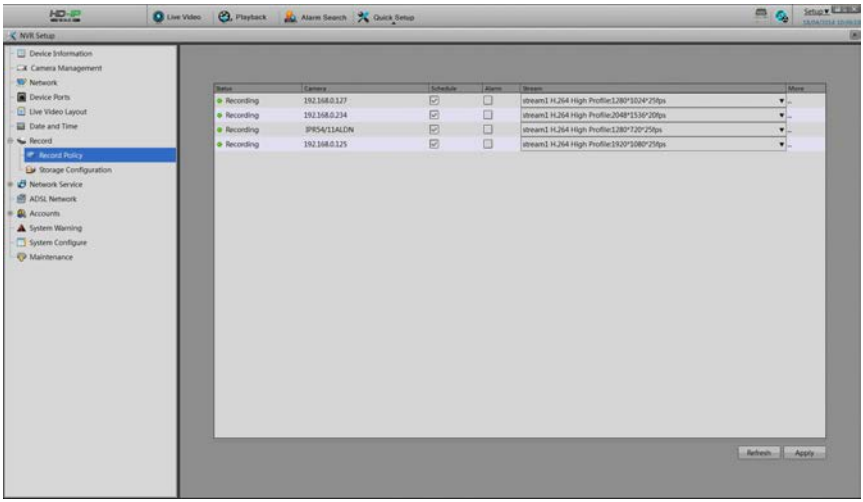
9.1.6 **Recording**

You can configure the Recording by Schedule, Alarm Recording, Recording Quality, and Recording Policy.

Step 1 Choose Setup > Record > Record Policy.

Enter the Record Policy shown in Figure 4-30.

Figure 4-30 Record Policy



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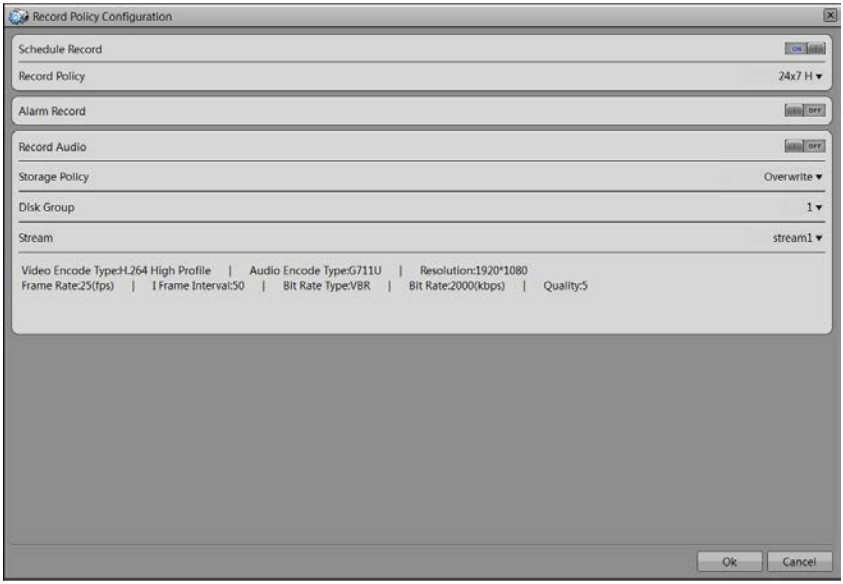
Step 2 Enable the record (Enabled as Default)

Step 3 Please select √ on the cameras which you want to record, and also select the corresponding stream parameters.

Step 4 Click more

The record policy configuration interface will pop up, shown in Figure 4-31.

Figure 4-31 Record Policy Configuration Interface.



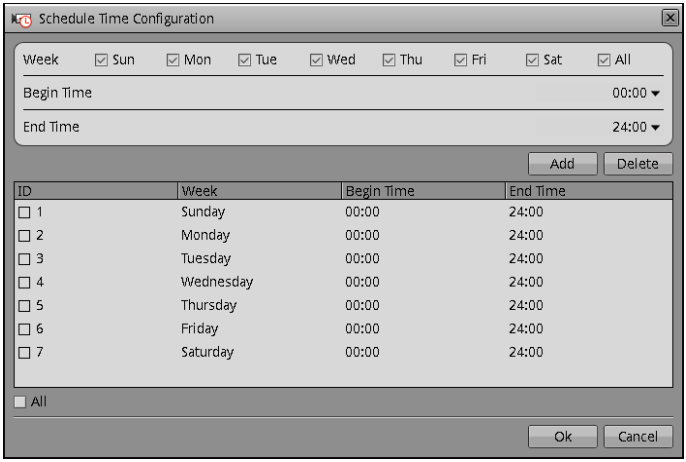
Step 5 Configure Record Policy

When configuring the record policy, there are two policies, 24 x 7 or Schedule.

If you select record by schedule, you need to configure the schedule plan. Follow the steps below.

1. Click to enter the schedule record configuration interface.
2. Configure the schedule for recording shown as Figure 4-32.
3. Click Apply to save.

Figure 4-32 Schedule record configuration



Step 6 To enable the alarm record

- If you do not want to enable the alarm record, then just set the button to OFF.
- If you want to enable the alarm record, then set the button to ON.

Step 7 To enable the audio

- Slide the bar to on.

Step 8 To configure the storage policy, select either:

- When HDD is full, overwrite.
- Retention day time.

Step 9 Configure the HDD disk group.

There will be 2 HDD disk groups. You can set the recording to be recorded to the different disk groups or you can set both HDDs to 1 disk group.

Step 10 Configure the record streams bit rates.

Step 11 Click Apply to save the configurations and exit the record policy interface.

9.1.7 **Storage policy**

In storage policy interface, you can do the following operations:

- Check the current HDD status.
- Check the HDD information details include: HDD capacity, free space.
- Unload and format operations.

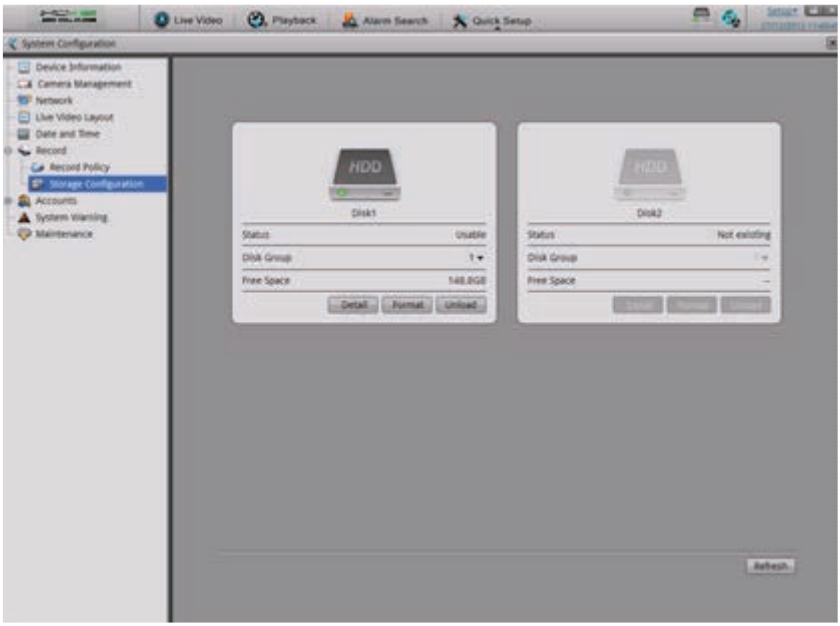
NOTE

When you first use the VHDIPL you will need to format the HDD otherwise recording will not be written to the HDD.

Select System configuration > Record > Storage Configuration.

Enter the Storage Configuration, shown in Figure 4-33.

Figure 4-33 Storage Configurations



9.1.8 **Account Management**

Privilege group setting

User's basic privilege includes:

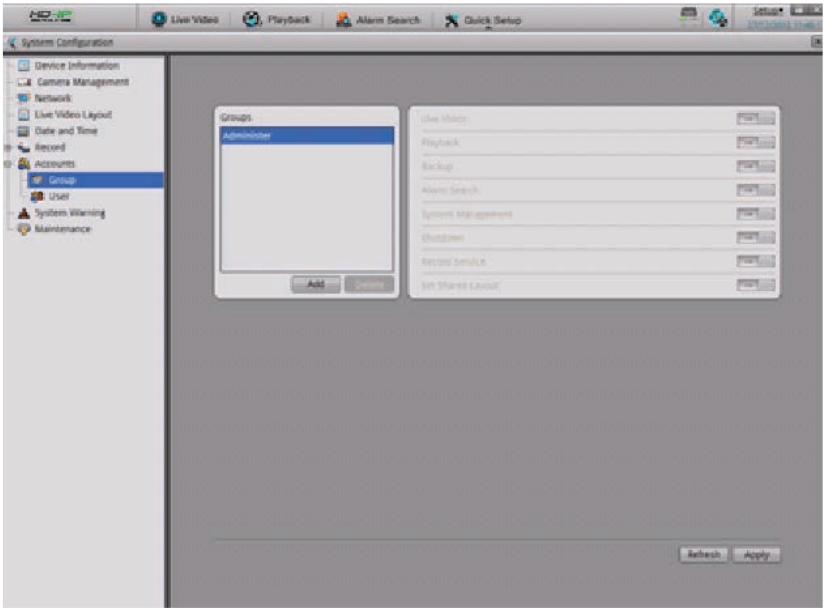
- Live video
- Playback
- Backup
- Alarm search

- System Management
- Shutdown
- Record service
- Set shared layout

Step 1 Accounts > Group

Enter the Group configuration interface, shown in Figure 4-34.

Figure 4-34 Group configuration interface



Step 2 Add and Delete Groups

- Add privilege group.

1. Click Add to bring up the Add Group Interface.
2. Input Group Name.
3. Click OK. Once added, return to the original interface.
4. Select the groups which are added, and select the privileges which they can have.
5. Click Apply to finish.

- Delete Privilege group.

1. Click Delete to call the Delete Privileges Group interface.
2. Click yes to return to the original interface.
3. Click Apply to finish the operation.

NOTE

System default privilege group is Administrators, which cannot be deleted and modified.

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User setting

You can add and delete users. The users which have the privilege of system configuration can unlock the system, it may be locked by inputting an incorrect password more than 3 times.

Step 1 System configuration > Account > User

Enter the user interface shown in Figure 4-35.

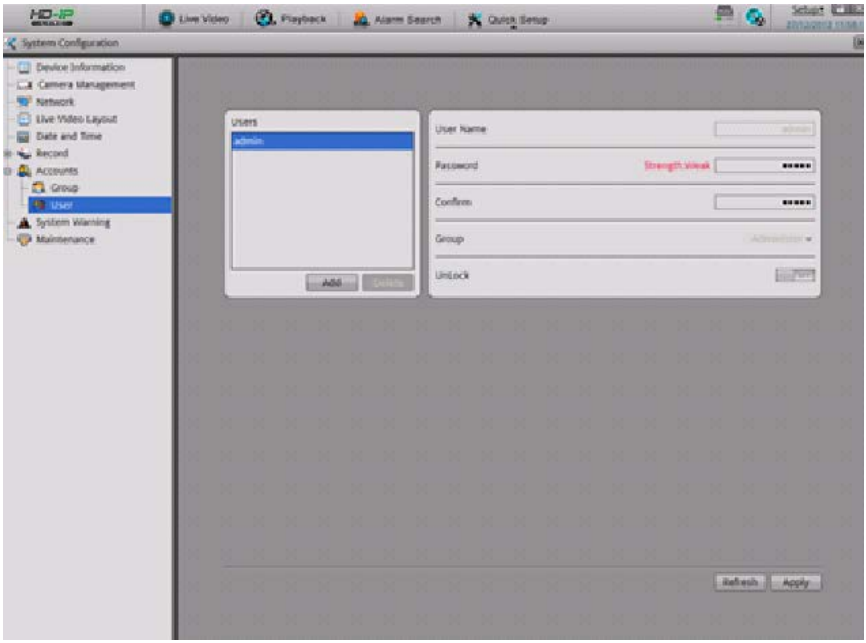
Step 2 Add and delete user.

- Add user

1. Click add to call the add user interface.
2. Input the user name.
3. Click OK.

   Finish the adding user, return to the previous interface.

Figure 4-35 User configurations



4. Configure the user password and privilege group.
5. Click Apply to finish the user adding configuration.

- Delete user.

1. Click delete to call the delete user interface.
2. Click yes to return the previous interface.
3. Click Apply once finished.

Unlock the locked user

When logged on to the system, if the user inputs the wrong password more than 3 times, then the system will lock the user, but only the administrator can unlock the user.

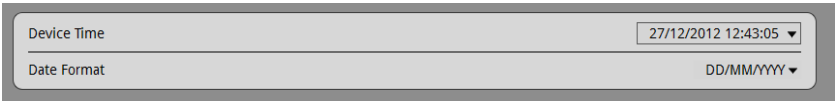
9.1.9 Date and Time Configuration

You can set the Date and Time and also the Date and Time format of VHDIPL.

Step 1 Setup > System Configuration > Date and Time,

Enter the date and time shown in Figure 4-36.

Figure 4-36 Date and Time configuration



Step 2 Input the correct time.

Step 3 Choose the date and time format which you want to use.

9.2 Camera management

In the camera management interface you can configure the parameters of the cameras which have been added to the VHDIPL.

It is the same to configure the device from the VHDIPL and from the WEB. Please see the VIPC-MB720 or VIPC-MD720 User Manual.

10 Web Browser Access for VHDIPL

VHDIPL Web Server, built-in flash technology supports IE, Chrome, Firefox, Safari and other popular browsers. It can be quickly be configured through the Web. Live preview, video playback, alarm retrieval, VHDIPL configuration, camera configuration and other operations can be configured through a web browser.

10.1 Login

The VHDIPL default IP address is: 192.168.1.120. Input the IP address of the VHDIPL into the address bar of the web browser to view the VHDIPL remotely.

CAUTION

- Please make sure the network is correctly configured and connected.
- The computer must have the flash player installed before main system can be used.

VHDIPL Web login screen shows in Figure 4-37.

Figure 4-37 VHDIPL Login interface

Enter a user name and password into the login screen to enter the main page

Default user name and passwords are both **admin**

NOTE

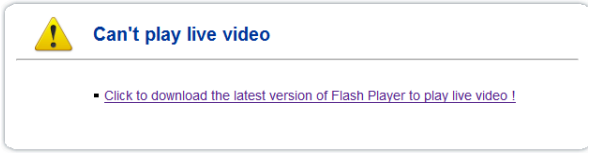
Administrator user ID: admin, administrator password: admin. User names and passwords are case-sensitive. Please modify the password after the first login. After three failed attempts of inputting the incorrect password the user will be locked, and will no longer be able to continue to log in until the administrator can unlock the user.

10.2 Operation Read

10.2.1 Player

VHDIPL web video function needs Adobe Flash Player to support it. If you do not install the Adobe Flash Player or if the player version is too low then it can't play the video shown in Figure 4-38.

Figure 4-38 Can't play video interface

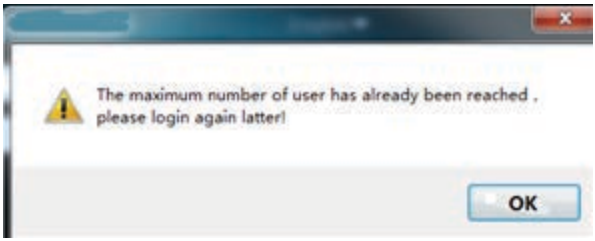


Please download and install the correct version of Adobe Flash Player.

10.2.2 Video capability

The VHDIPL can only support 4 users to access the web client and use the VHDIPL at the same time. When the online users reach over 4, a dialogue will be shown as Figure 4-39.

Figure 4-39 Number of users exceeded

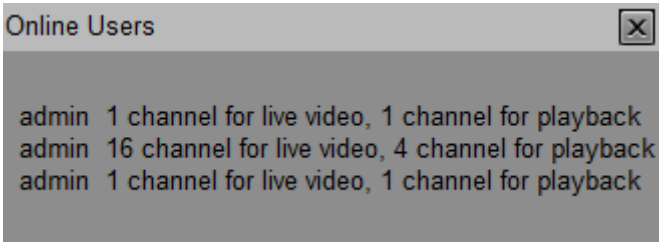


VHDIPL web will only support 16 channels live video and 4 channel playback for one user login (maximum ability), with other users it will only support 1 channel Live video and 1 channel playback (minimum ability).

The first login user will be the maximum ability user. Other users are the minimum ability users, when the maximum ability user logs out then the next user login will be the maximum ability user.

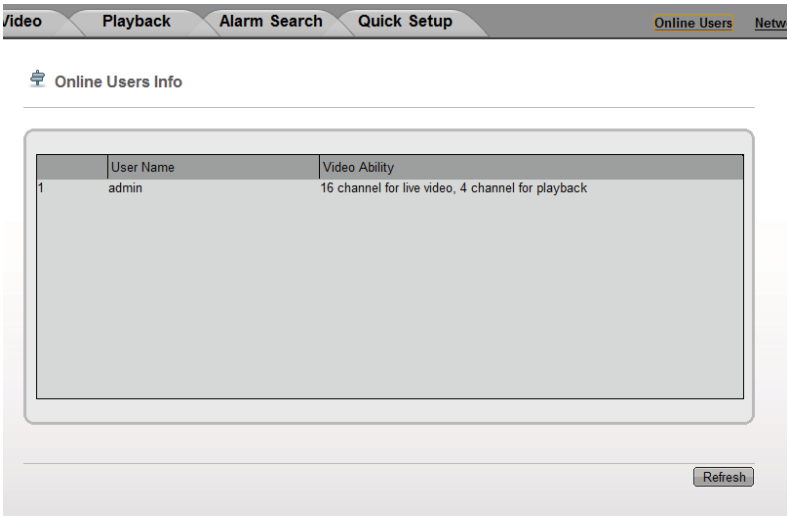
The VHDIPL will adjust the video ability according the user login, when user logs in the bottom of the screen will show a message shown in Figure 4-40.

Figure 4-40 User Video Ability Information Interface


Online Users
admin 1 channel for live video, 1 channel for playback
admin 16 channel for live video, 4 channel for playback
admin 1 channel for live video, 1 channel for playback

Click the online users on the web and it will enter the online users interface, from there you can see all the online user's video ability. Shown as Figure 4-41.

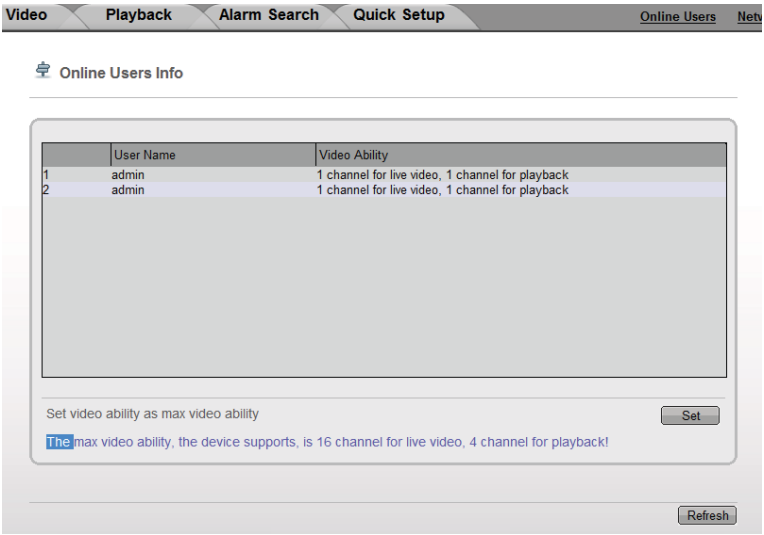
Figure 4-41 Online Users



Click Refresh to update the information.

If the maximum ability user logs out, the online user's interface changes and can be set, shown in Figure 4-42. Then other users can set their video ability.

Figure 4-42 Set User Video Ability

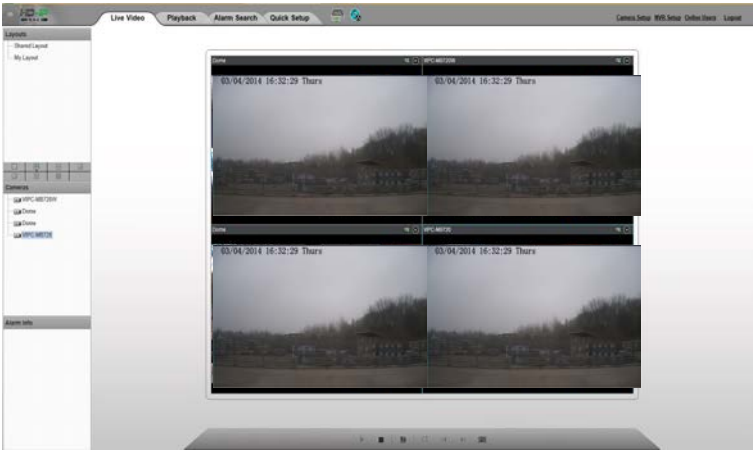

Video
Playback
Alarm Search
Quick Setup
Online Users
Online Users Info
User Name
Video Ability
1 admin 1 channel for live video, 1 channel for playback
2 admin 1 channel for live video, 1 channel for playback
Set video ability as max video ability
Set
The max video ability, the device supports, is 16 channel for live video, 4 channel for playback!
Refresh

If other users are set to a maximum ability the interface will go back to Figure 4-42 and you can't set the ability anymore. If a setting failed then a failed message will be displayed.

10.3 **Live Video**

After login via the Web, you can see the live video by selecting the cameras shown in Figure 4-43.

Figure 4-43 Live video



10.4 **Playback**

You can play back the video by the playback interface.

Operation Steps

Step 1 Click Playback to enter the playback interface shown in Figure 4-44.

Step 2 Select the camera to playback.

Click the camera list, means device was chosen, means device was not chosen.

Step 3 Select date.

Check the date on the calendar , change month, , change year. This means the date is chosen. If the date with green colour it means this day has recorded video.

Step 4 Video play

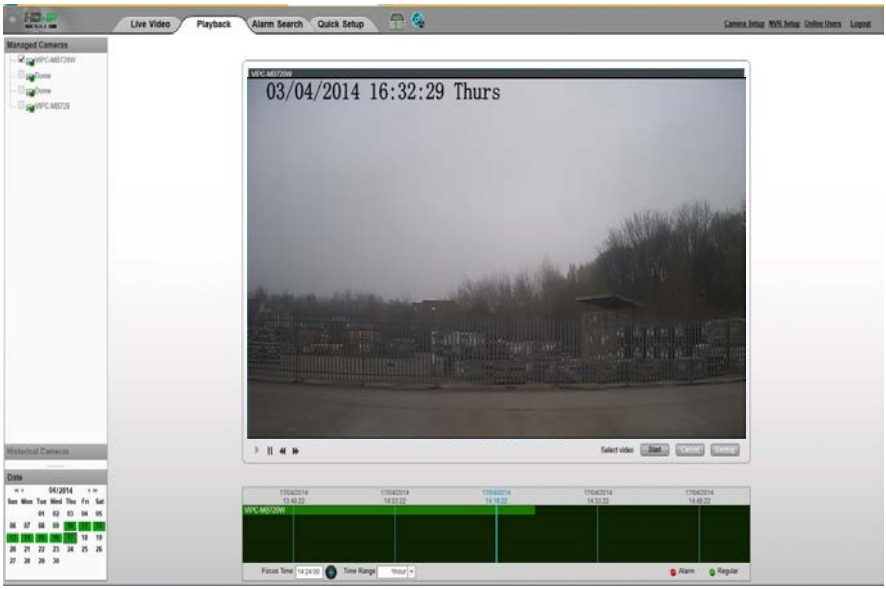
After the time and date has been selected you can then play the video. The scale on the time axis showing the recording time period, blue marked line means the current playback video time. The playback video will be displayed above the time axis, blue marked means retain video, red marked means alarm video, yellow means label video, green means normal video.

Step 5 Video play

Click to play video shown in the control bar of Figure 4-44.

Play, Stop, Fast Forward, Rewind

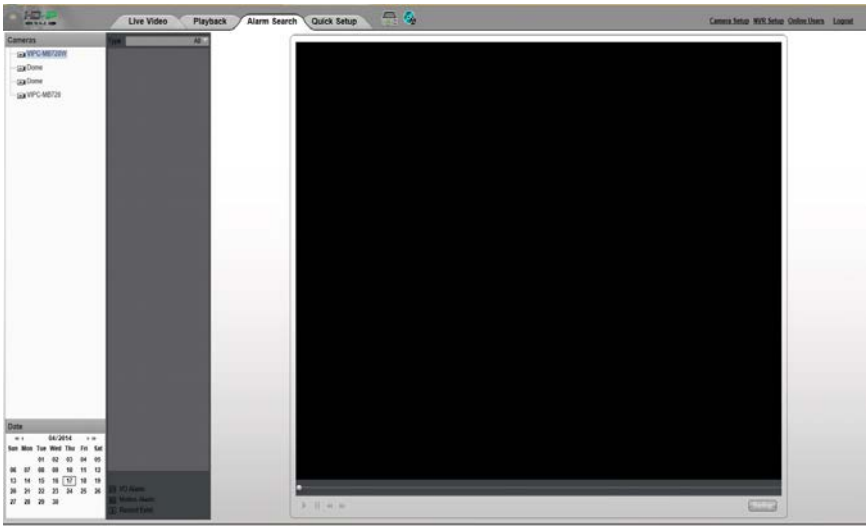
Figure 4-44 Playback



10.5 **Alarm Search**

Click the Alarm Search in the Alarm Management Interface shown in Figure 4-45.

Figure 4-45 Alarm search



Step 1 Choose the device on the left that you want to see the alarm information.

Step 2 Choose the alarm type by the bar Type.

Step 3 Choose the date.

Check the date on the calendar , change month, , change year. 12 This means the date is chosen. If the date with red colour means this day has alarm video recorded.

Step 4 Video play.

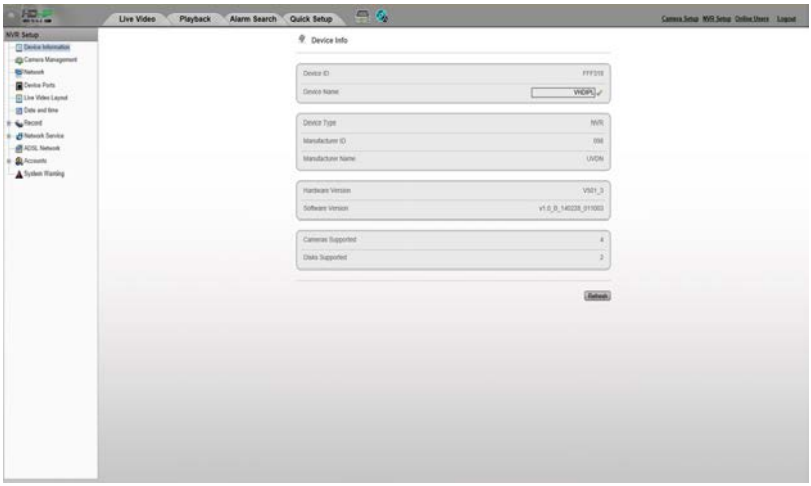
After selecting the device and the date, the alarm file will be displayed below the Type.

And click to begin play video.

10.6 **VHDIPL setup**

Click the NVR Setup on the web browser enter the VHDIPL configure interface shown in Figure 4-46. For a detailed setup please refer to chapter 9 VHDIPL setup.

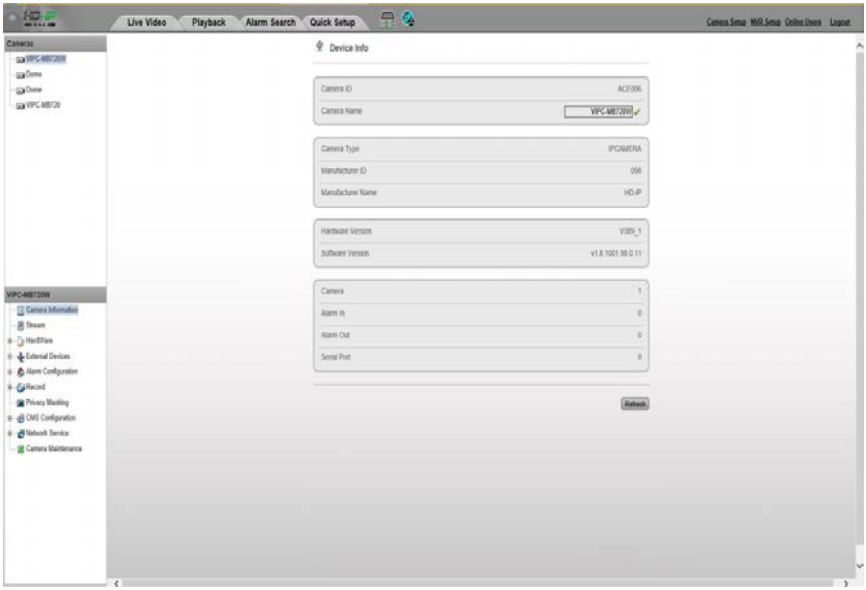
Figure 4-46 VHDIPL setup interface



10.7 **Network Camera setup**

Click the Network Camera Setup on the Web, enter the Camera Configuration interface shown in Figure 4-47. For a detailed setup please refer to the VIPC-MD720 and VIPC-MB720 User Manual.

Figure 4-47 Camera Configure interface



11 HD-IP Access for VHDIPL

Operation condition

Please install HD-IP client from the USB stick provided. The HD-IP client installation methods will be in the "Network Video Management System manual”

11.1 Start and Run

If you have installed HD-IP please run it by this icon to the Login interface.

11.2 Login

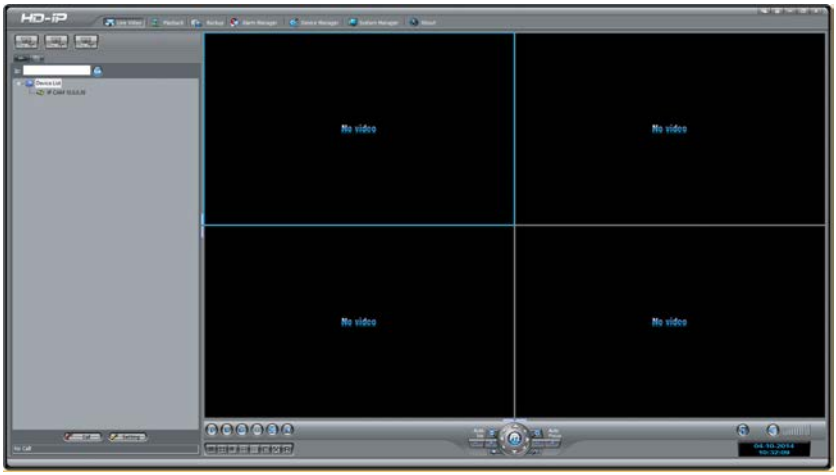
When the Login interface pops up, enter default user name: **admin,** default password: **admin** shown in Figure 4-48

Figure 4-48 Login interface

11.3 System main interface

After entering the correct user name and password, click Login to the system main interface shown in Figure 4-49.

Figure 4-49 Main Interface



11.4 VHDIPL management

After entering main interface, select Device Manager > NVR management go to VHDIPL configure interface.

Device Information

Operation description

NVR device information includes:

- Device ID and Device Name
- Device Type, Manufacturer ID, Manufacturer Name
- Hardware Version and Software Version
- Camera Count and Disk Count

NOTE

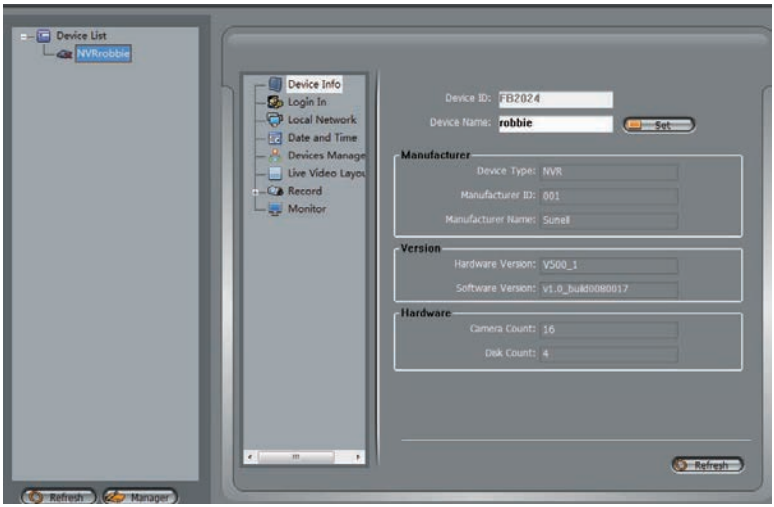
- Only the Device Name can be edited, other parameters can't be edited.

Operation Steps

Step 1 Select Device Manager > NVR management > Device Info

The VHDIPL information is shown in Figure 4-50.

Figure 4-50 Device info interface



Step 2 Set Device Name, Enter the name and click Set.

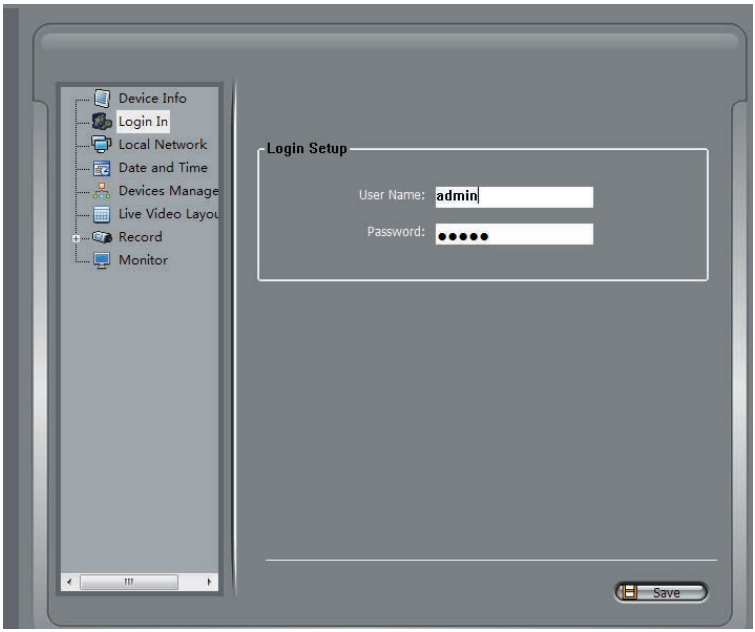
11.4.1 Login

Once logged into the interface you can change the default user name and password.

Operation Steps

Step 1 Select Device Manager > NVR management > Login in to enter the interface shown in Figure 4-51.

Figure 4-51 Login Interface



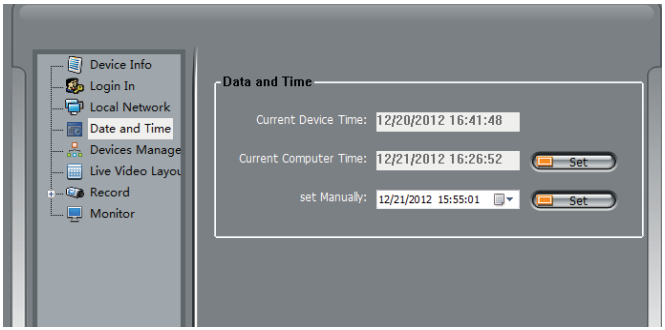
Step 2 Enter the user name and password, and click Save to exit.

11.4.2 **Date and Time**

Change the date and time of the VHDIPL

Step 1 Select Device Manager > NVR management > Date and Time, enter configuration interface shown in Figure 4-52.

Figure 4-52 Date and Time Settings



Step 2 Change the VHDIPL Date and Time

Click the Set button behind the Current Computer Time to sync the time from the PC to the device.

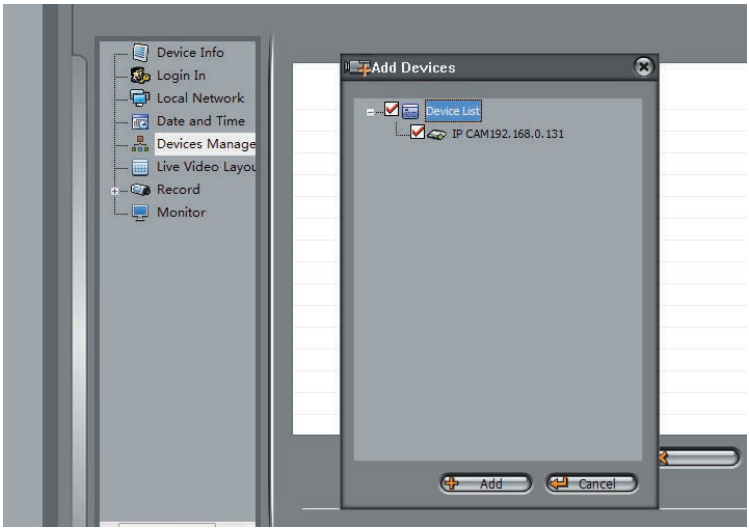
- Set the Computer current time to the VHDIPL time.
- Set manually to change time.
- Click button to call the date.
- Set the date.
- Input the time after the date.

11.4.3 **Device Management**

Add/Delete the IP cameras to the VHDIPL through the Device management.

Step 1 Select Device manager > VHDIPL management > Device management enter the device manager interface shown in Figure 4-53.

Figure 4-53 Device Management



Step 2 Select the cameras and click Add.

Call the adding device interface, shown in Figure 4-54 to add all the network cameras.

Step 3 Select the cameras which you want to add into the VHDIPL.

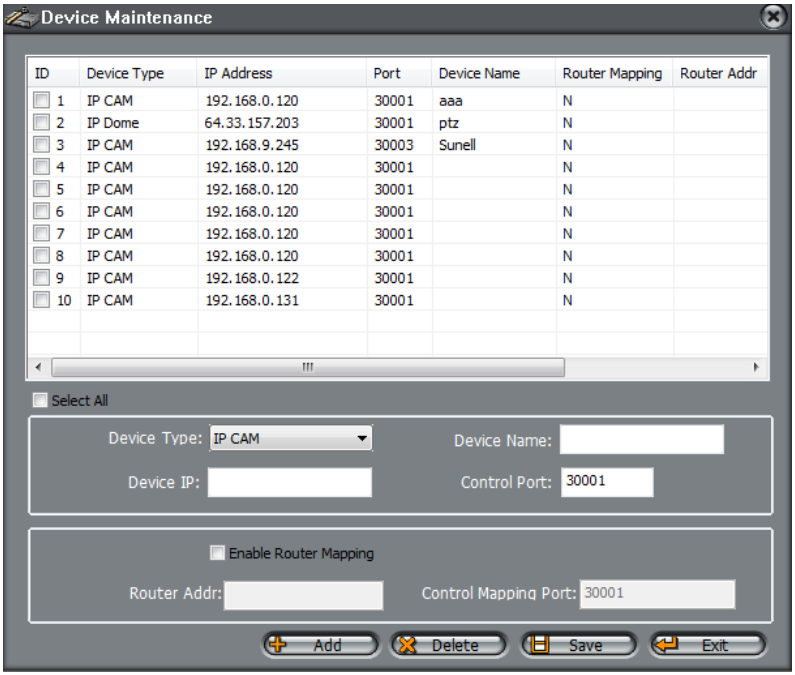
Step 4 Click Add to call the added ok message, then click OK, and exit the interface.

NOTE

Select the devices which you want to delete click delete, the cameras have now been deleted.

Step 5 Click Apply to call the "Configure Successful interface", click OK to save the configuration.

Figure 4-54 Add Device



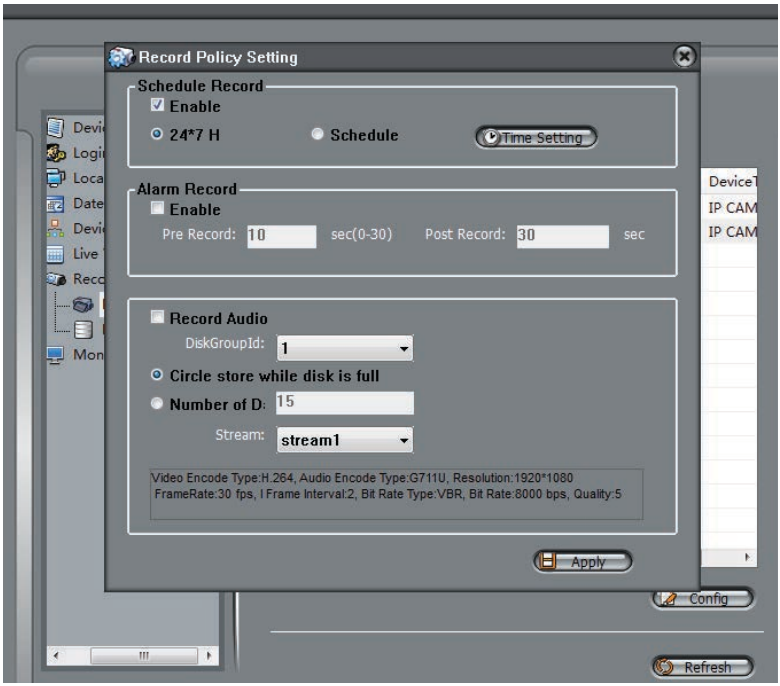
11.4.4 VHDIPL Record

VHDIPL can set the Record Policy and Record Storage.

Record Policy

Step 1 Select Device Manager > NVR management > Record > Record Policy and enter the Record Policy interface shown in Figure 4-55.

Figure 4-55 Record Policy



Step 2 Select the device and click Configure.

In the Record Policy setting you can set the Schedule Record, Alarm Record, Audio Record etc.

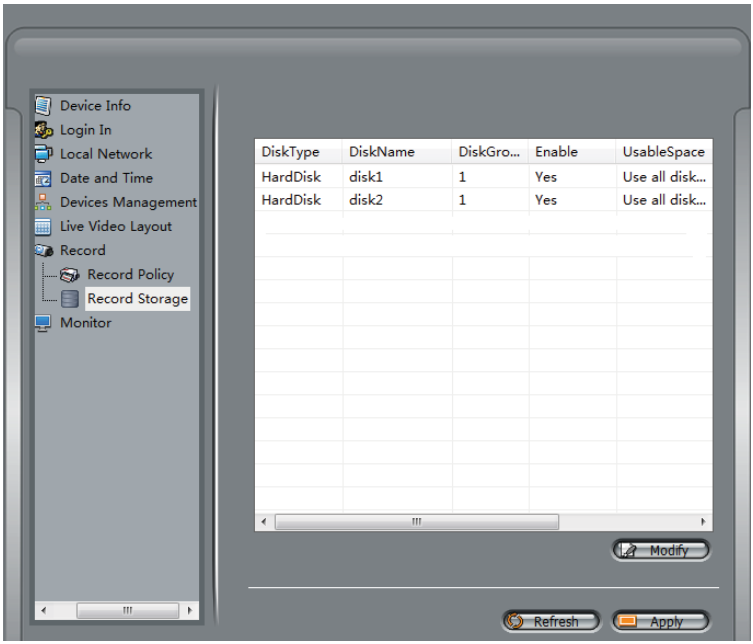
Step 3 Set the policy which you need.

Step 4 After you set the configuration click Apply to set.

Record Storage

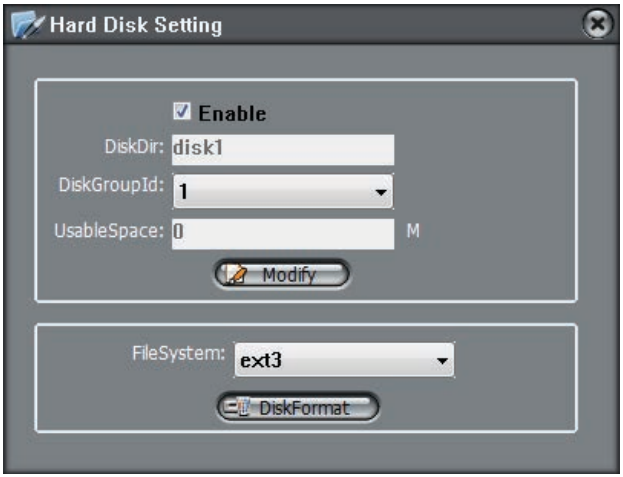
Step 1 Select device manager > NVR management > Record > Record Storage. Enter the Record Storage interface shown in Figure 4-56.

Figure 4-56 Record Storage



Step 2 Select the Hard Disk and click Modify enter the path setting interface shown in Figure 4-57.

Figure 4-57 Hard Disk Setting



Step 3 Select Enable.

Step 4 Select the Disk Group ID.

Step 5 Input the Usable Space.

Step 6 Click Modify to save the configuration and exit the interface.

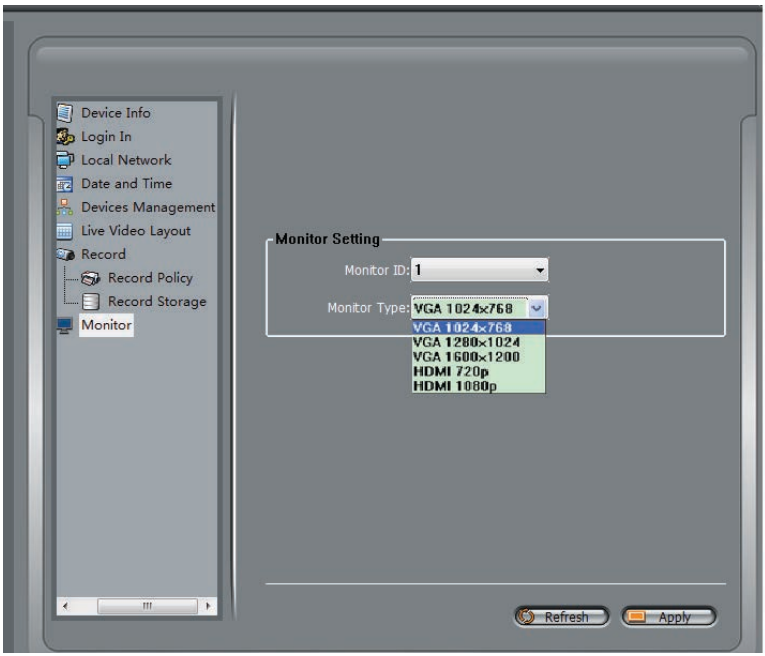
Step 7 Select the file system.

Step 8 Click disk format to format the disk. Confirmation will be required, if yes, then it will start to format.

11.4.5 **VHDIPL Monitor**

VHDIPL rear panel has a VGA output and a HDMI output interface you can adjust the monitor type shown in Figure 4-58.

Figure 4-58 Monitor Configure



After changing the configuration, the VHDIPL will restart automatically.

11.5 **Playback**

HD-IP can remotely playback the video from the VHDIPL.

11.5.1 **Video Search and playback**

In HD-IP click Playback then click to enter the VHDIPL playback shown in Figure 4-59.

Figure 4-59 Playback

Means: Play, Pause, Stop, back 1 frame, forward 1 frame, 1/2 fast forward, ¼ fast forward, 1/8 fast forward, 1/16 fast forward, 2 x fast forward, 4 x fast forward, 8 x fast forward, 16 x fast forward.

Means: amplification, narrow, reduction, 10 seconds amplification, 30 second amplification, 1 minute amplification, 5 minute amplification, 10 minute amplification.

The maximum playback is 16 channels.

NOTE

Green colour is schedule record, red colour is alarm record. Grey colour is no video.

11.5.2 **Backup**

Enter the Backup interface, select the video that needs to be backed up by dragging the mouse on the time axis and right click, click backup to start the video backup.

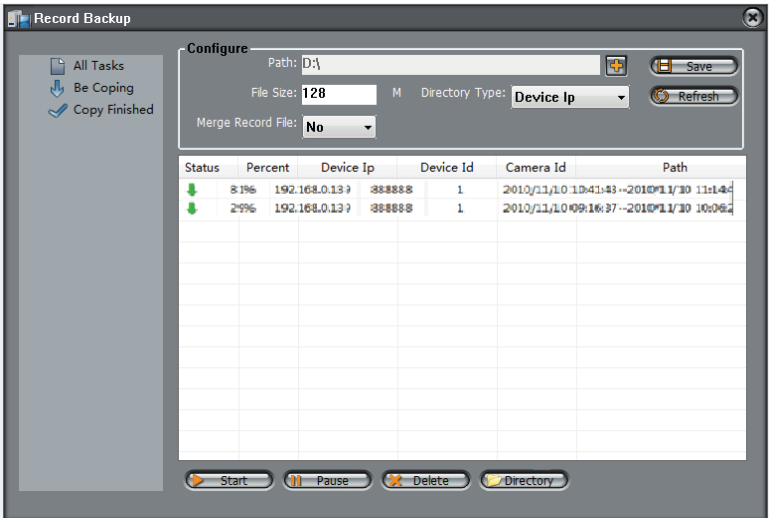
NOTE

Blue file on time axis is the video chosen for backup. Press Ctrl to select more parts of the video.

Click

to backup configure and check the task, setting the path and backup size shown in Figure 4-60.

Figure 4-60 Backup

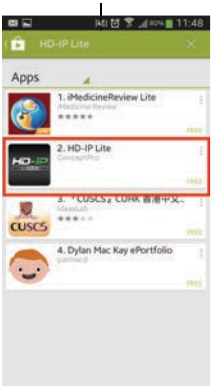


Click Directory and check the backup file has finished.

12 HD-IP Lite App

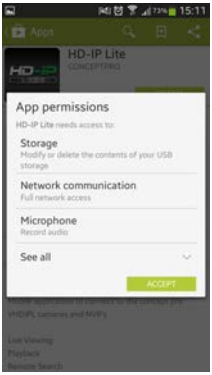
12.1 HD-IP Lite Android device

How to download the HD-IP Lite on an Android device

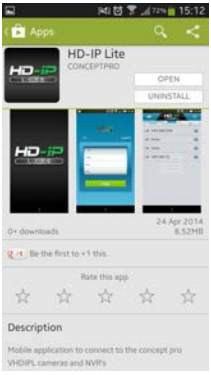


From your smart phone access the Play Store and search for HD-IP Lite.

Select Install



Click on Accept



Once installed click on Open

12.2 HD-IP Lite iOS Device

How to download the HD-IP Lite on an iOS device

From your smart phone access the App Store and search for HD-IP Lite.

Click on Free then Install to install the app, you may need to enter your apple account details.

Once installed click on Open

For more information about the HD-IP Lite app, please see the HD-IP Lite Quick Start Guide.

13 F.A.Q

1. Why does the device's self-test interface not move?

Method One: Check the VHDIPL is equipped with a HDD.

Method Two: Check the VHDIPL's HDDs are detected.

Method Three: Check the VHDIPL's HDDs has not been damaged.

2. Why is the interface display incomplete or location offset?

Method One: Automatically adjust the display function.

Method Two: In the login screen, select the adjustment, enter the display adjustment interface.

3. Why can't the monitor see the image?

Method One: Check the power for the monitor.

Method Two: Check the cable from the monitor to the VHDIPL.

Method Three: Please restart the VHDIPL.

4. Why can I search the network camera, but I am unable to connect to them?

Please make sure the network cameras and the VHDIPL are in the same subnet.